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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,211	10/16/2001	Yu Wang	2734-38	3190

30024 7590 06/17/2003

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EXAMINER

MOHANDESI, IRAJ A

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 06/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/977,211	WANG ET AL.	
	Examiner	Art Unit	
	Iraj A Mohandesi	2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22/05/2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) 15-17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) 6 and 9-14 is/are allowed.
- 6) ☒ Claim(s) 1,5,7 and 8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1-5,7,8** and are rejected under 35 U.S.C. 102(b) as being anticipated by **Katsuki JP 359198868A**

Katsuki discloses a field winding for a rotary electric machine comprising at least one rotor field winding (1 a, 1 b, Fig. 5) arranged on a periphery of the rotor (2, Fig. 5) a winding support (7, Fig. 5) mounted on the rotor periphery having a slot (6, Fig. 1) receiving said at least one winding (1), winding assembly is mountable on said rotor (, Fig. 5), at least one rotor field winding is a plurality of windings and the winding support has a plurality of (7s) and a plurality of slots between said teeth, (the opening between 7s) and further each of said slots receives one of said plurality of windings (1, see Fig. 5) at least one spacer (7) having edges that engage slots on at least one surface of the rotor, and winding support comprises a plurality of winding supports distributed along opposite sides of said plurality of windings (Fig. 5), opposite sides of said plurality of windings are mountable to encircle a rotor core section, said at least one surface of said rotor core includes opposite surfaces of the rotor core section, and said spacers are collectively engageable with both of said opposite surfaces of the rotor core section to secure the winding assembly to the rotor core section (Fig. 5).

Response to Arguments

3. Applicant's arguments with respect to **claim 1-5,7,8** have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance:

Claims 6,9-14 are allowed.

The prior art of the record fails to teach a winding assembly for a rotor comprising:
at least one rotor field winding arranged on a periphery of the rotor the winding support mounted on the rotor periphery having a slot receiving said at least one winding
wherein said winding assembly is mountable on said rotor and wherein said winding support further includes at least one spacer, having edges that engage slots on at least one surface of the rotor, and said slots are transverse to a centerline of the rotor, and further wherein said winding assembly further comprises a locking bar engaging a notch on an edge of said at least one spacer, and said locking bar slidable engages with a locking slot on said surface of the rotor, wherein said locking slot is parallel to said centerline of the rotor.

With respect to **claim 11**;

The prior art of the record fails to teach a winding assembly for a rotor core comprising:
an array of field windings arranged in an array, each of said windings having a pair of opposite long sides, and a pair of opposite end sections; a plurality of winding spacers supporting the long sides of said field windings, said winding spacers each having a first edge and a second edge, wherein each of said first edges slidable engage a

respective spacer slot on a first surface of the rotor core, and each of said second edges engage a respective spacer slot on a second surface of the rotor core, and wherein the first surface of the rotor core has a locking slot transverse to the spacer slots on the first surface, and said assembly further comprises a locking bar slidable engaging the locking slot.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

communication.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is (703)305-3242. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)872-9314 for After Final

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-0377.

IM June 13, 2003

